

30 th YEAR ANNIVERSARY SYMPOSIUM OF
THE SOUTHEAST ASIAN GEOTECHNICAL SOCIETY

DEEP FOUNDATIONS, EXCAVATIONS, GROUND IMPROVEMENTS & TUNNELLING

BANGKOK, THAILAND

03-07 NOVEMBER 1997

BULLETIN 2



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Her Royal Highness Princess Maha Chakri Sirindhorn giving the Opening Address during the Ninth Southeast Asian Geotechnical Conference in 1987.



**Nelson et al. Brand et al.
Moh et al.**

(Drs. Za-Chieh Moh , Edward W.Brand and John D. Nelson, during the NinthAsian Regional Conference, Bangkok, 1991)

30TH YEAR ANNIVERSARY SYMPOSIUM ON DEEP FOUNDATIONS, EXCAVATIONS, GROUND IMPROVEMENTS & TUNNELLING

INTRODUCTION

The year 1997 coincides with the thirtieth year anniversary of our Southeast Asian Geotechnical Society. During the last thirty years, remarkable progress have been made in Southeast Asia in Geotechnical Engineering Education, Research and Practice. The 30th Anniversary event this year will mainly concentrate on three to four areas in which Geotechnical Engineering Practice is very vibrant in the member countries of our Society. These topics are Deep Foundations, Deep Excavations for Underground Utilities, Ground Improvements, and Tunnelling for Mass Rapid Transit Projects. Generous support is solicited from the members of our Society, General Committee Members, and Presidents (past and present) to make this event successful and comparable with the 10th and 20th year anniversaries held in Bangkok in 1977 and 1987, respectively.

An International Symposium and Lecture Series is planned for the 30th Anniversary from 03-07 November 1997. Centered around each topic are comprehensive lectures that would be given by internationally well-known figures. This would be followed by a presentation of invited papers from the experts of our member countries on each topic and a Presentation and Panel Discussion on the contributed papers. Members of our Society and other interested persons are cordially invited to participate in this important event. Papers are also accepted on other related areas of interest in Geotechnical Engineering Practice, e.g., slope stability, landslides and earthquakes.

SYMPOSIUM THEME

The theme of the Symposium is Geotechnical Engineering Practice in Deep Foundations, Deep Excavations, Ground Improvements and Tunnelling. This theme is in line with the current intensive activities of Geotechnics in Southeast Asia and elsewhere. Papers on other topics of Geotechnical Engineering Practice are also accepted.

DATE AND VENUE

The Conference will be held at the AIT Center Auditorium from 03-07 November 1997

PARTICIPANTS

The Conference is arranged for the benefit of engineers, geologists, and other scientists of the Southeast Asian region and elsewhere. All interested persons are cordially invited to participate.

OFFICIAL LANGUAGE

The official language of the Conference is English.

TECHNICAL CONTENT OF SYMPOSIUM

The Technical Content of the Symposium consists of

1. Guest Lectures
2. Invited Country Presentations and
3. Contributed Papers

(A) Guest Lectures would be given by

Dr. Tan Swan Beng
Prof. Kenji Ishihara
Prof. Harry G. Poulos and
Prof. Rainer Massarsch

Country Presentation would be given by experts in the region.

(B) Country Presentations on Deep Foundations, Deep Excavations, Ground Improvements & Tunnelling

I) Deep Foundations

No.	Author	Country
1	Dunstan D.S.Chen	R.O.C.
2	S.F.Chan	Malaysia
3	Warakorn Mairaing	Thailand
4	Y.C.Koo	Hong Kong

II) Deep Excavations

No	Author	Country
1	K.Y.Yong	Singapore
2	S.L.Lee	Singapore
3	Woo, Siu-Mun	R.O.C.
4	Wanchai Teparaksa	Thailand
5	Andrew Malone	Hong Kong

III) Ground Improvements

No.	Author	Country
1	Ooi Tiek Aun	Malaysia
2	Pinit Tungboonterm	Thailand
3	D.T.Bergado	Thailand
4	John Davies	Hong Kong
5	Chung, Yu-Tung	R.O.C.

IV) Tunnelling

No.	Author	Country
1	Noppadol Phien-Wej	Thailand
2	William Foreman	Hong Kong
3	Hsieh, C.S.	R.O.C.

More country presentations are expected from Indonesia, Korea & Japan

(C) List of Contributed Papers

No.	Title of the Paper	Author	Country
1	Deep Cut – Slope in Jurong Formation and Backfilled Soils	Shi Yu Cheng	Singapore
2	Lessons from the Loading Test of Piles	Jaroslav Feda	Czech Republic
3	Design of Buried Pipes Based on FE Elastic Analysis	Jun Tohda	Japan
4	Mass Movements and Related Process during Tropical Storm GREC in Keiningau-Sabah- Malaysia	Majeed M. Faisal	Malaysia
5	Geology of Kota Kinabalu and its Implications to Foundation Stability	Sanuddin Hj. Tahir	Malaysia
6	An Approach to the Mudpumping Problems in Kyushu Shinkansen Tunnels	J.T. Shahu	Japan
7	Dynamic Measurements during Dynamic Compaction	Y.M.Na	Singapore
8	Utilization of Geosynthetic in Flexible Pavements- Argument and Assessment	Jian – Shiuh Chen	Taiwan

Contributed Papers (Contd.)

No.	Title of the Paper	Author	Country
9	Mathematical Modelling of Smear Effect Around Vertical Drains Installed in Soft Clay	Buddhima Indraratna	Australia
10	Performance Verification of Soil Improvement Work with Vertical Drain	Bo Myint Win	Singapore
11	Analysis of Miri Port Test Embankments	Zaba Ismail	Malaysia
12	Recent Development of Ground Improvement Technology in Southeast Asia	Ooi Teik Aun	Malaysia
13	Behavior of Tank Foundations on Improved Ground at Jurong, Singapore	J.J. Richard	Malaysia
14	Horizontal Reaction Earth Pressure	Takasi Hara	Japan
15	Evaluation of the Uplift Capacity of Piles	Ho Chu Eu	Singapore
16	Three -Dimensional Limit Equilibrium Analysis of Shallow Tunnel	Kim, Hongtaek	Korea
17	Design, Construction and Field Testing of Vertically and Laterally Loaded Piles	Dinesh Patel	UK
18	Behavior of Embankments on Mine Tailing and Natural Alluvial Clay/ Sand Deposits	Dinesh Patel	UK

Contributed Papers (Contd.)

No.	Title of the Paper	Author	Country
19	Prediction of the Settlement Response of Soft Ground Improved by Columnar Inclusions	Muhammad Alamgir	Japan
20	Properties and Performances of Some Regional Soft and Peat Soils	D.S Younger	Indonesia
21	Non-Uniformly Consolidated Ground around Vertical Drain	Yasuo Tanaka	Japan
22	Behavior of Open-ended Steel Piles in Granular Soils	M.S.A. Siddique	Bangladesh
23	Development of Realistic Pile Soil Interaction System	Salek M. Seraj	Bangladesh
24	Review of Deep Basement Construction in Kuala Lumpur	Tony J. Barry	Malaysia
25	Three-Dimensional Excavation Analyses by Finite Element Method.	Kamal Abdul Aziz	Malaysia
26	Vibration and Damage Control of Rock Blasting in Thailand	S. Tangchawal	Thailand
27	Centrifuge Study on Stability around Tunnel in Clay Reinforced by Soil Nails	Jiro Kuwano	Japan
28	Geotechnical Experiences in Foreign Lands	I. Yogarajah	Philippines

Contributed Papers (Contd.)

No.	Title of the Paper	Author	Country
29	Application of Gun Pile Method on Deep Excavation in Gravel and Cobble Layers	Hwang Zue-Min	R.O.C.
30	Reverse Analyses on a Viscous Property of Soft Rock	Mitsutaka Sugimoto	Japan
31	Deep Excavation-Taiwan Experiences	Woo Siu-Mun	R.O.C.
32	Some Remarks Concerning Bentonite Analyses	Kinsky Jan	Israel
33	Vibrocompaction of the Sandy Deposits at the Red Sea and Arabian Gulf Coasts in Saudi Arabia	Muhammad Ijaz Sadiq	Saudi Arabia
34	Three Dimensional Stability Analysis of the L-Shaped Corner with Skew Reinforcements	Kim, Hong – Taek Lee Eun-soo Hwang Young-Chul Park Sa-Won	Korea
✓ 35	Soil Improvement on a Reclaimed Land –The Indonesian Experience	Gouw Tjie- Liong	Indonesia
36	Engineering Properties of Improved Soil Ground Foundations by Microwave Energy	Zhusupbekov Askar Mr. L. A. Babin	Kazakhstan

REGISTRATION FEES

The registration fee for the Symposium Participant is US\$ 450 and this covers :

1. Participation in all Symposium themes
2. Printed volume of the proceedings
3. Coffee and lunch
4. A welcome reception and a farewell dinner

Registration fee for the accompanying person is US\$ 300.

HOTEL ACCOMMODATION/RESERVATION

Rooms can be booked well in advance in the AIT Center Hotel (venue of the symposium) or in the Rama Gardens Hotel (near the symposium site). To make hotel reservation, please use the attached Application Form indicating clearly the category of the Hotel desired, the number of rooms required and duration of stay. Please return the completed Application with a hotel deposit of US\$ 150 and the Registration Fees.

CORRESPONDENCE

All correspondence relating to the Symposium should be addressed to :

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(Family Name) (Other Names)

Position or Title : _____

Mailing Address : _____

Telephone No: _____ Fax No: _____

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Registration Fee US\$ 450 ☐

Deposit for Hotel Accommodation US\$ 150 ☐
☐ AIT Center Hotel ☐ Rama Gardens Hotel

All remittance should be made in cheque/draft and should be payable to:
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Please return this form and remittance to the address shown below:

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**General Committee of the Southeast Asian Geotechnical Society
with Prof. T.W. Lambe in 1987, (9th SEAGC)**



**Dr. Surachat, the President of Southeast Asian Geotechnical Society, with
Dr. Yongyuth and the late Prof. G. Wiseman (During 9th SEAGC)**